QC-ABSTRACT

Name of Work:- Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	PCC 1:3:6	126.21 Cum	1	1	Cement
4	M30 Concrete	128.16 Cum	6	6	Sand, Aggregates Concrete Cube Compressive Strength
5	100mm Precast Slab	13.50Sqm	1	1	Compressive Strength
6	Kerb Stones	33.00 Nos	1	1	Compressive Strength

A.E.E

Cubes

0-5 m^3	1set
6-15 m^3	2set
16-30 m^3	3set
31-50 m^3	4 set

Add 1set for every 50 Cum

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Job No.: CQCE/BBMP/AEE/YNK/W-01/2020-2021

Date: 23.11.2021

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer, Yelahanka Sub Division,** BBMP, Bangalore.

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of Work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : November - 2021

Date of Testing : 22.011.2021

AE-1
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AE

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	-

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Job No.: CQCE/BBMP/AEE/YNK/W-01/2020-2021 Date : 22.011.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Sub Division,** BBMP,
Agency : **Sri.Y.B. Ramesh, Bangalore**
Name of Work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Date of Testing : 22.011.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

AE-I
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AE

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	7.80	7.80	92.2	90-100
2.36	95	9.50	17.30	82.7	75-100
1.18	167	16.70	34.00	66.0	55-90
600 Micron	221	22.10	56.10	43.9	35-59
300 Micron	185	18.50	74.60	25.4	8-30
150 Micron	166	16.60	91.20	8.8	0-10

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Job No.: CQCE/BBMP/AEE/YNK/W-01/2020-2021 Date : 22.011.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP,**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of Work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Date of Testing : 22.011.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	198	1.32	1.32	98.68	95-100
20	8447	56.31	57.63	42.37	30-70
10	3526	23.51	81.14	18.86	10-35
4.75	2456	16.37	97.51	2.49	0-5

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Job No.: CQCE/BBMP/AEE/YNK/W-01/2020-2021 Date : 11.09.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Sub Division**, BBMP,

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of Work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Date of Testing : 11.09.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	215	4.3	4.3	95.7	95-100
10	2655	53.1	57.4	42.6	25-55
4.75	1954	39.1	96.5	3.5	0-10

AE-1 A.E.E

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Job No.: CQCE/BBMP/AEE/YNK/W-01/2020-2021 Date: 20-Jan-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of the work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

AE-1
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13-Jan-22	20-Jan-22	8.456	458.1	20.36
2	13-Jan-22	20-Jan-22	8.415	442.6	19.67
3	13-Jan-22	20-Jan-22	8.640	457.6	20.34

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Job No.: CQCE/BBMP/AEE/YNK/W-01/2020-2021 Date: 10-Feb-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of the work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13-Jan-22	10-Feb-22	8.415	712.4	31.66
2	13-Jan-22	10-Feb-22	8.625	711.6	31.63
3	13-Jan-22	10-Feb-22	8.457	703.4	31.26

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of the work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13-Jan-22	20-Jan-22	8.410	469.5	20.87
2	13-Jan-22	20-Jan-22	8.320	452.3	20.10
3	13-Jan-22	20-Jan-22	8.415	446.5	19.84

AE
A.E.E

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of the work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13-Jan-22	10-Feb-22	8.840	689.4	30.64
2	13-Jan-22	10-Feb-22	8.624	699.5	31.09
3	13-Jan-22	10-Feb-22	8.124	701.4	31.17

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of the work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

AE-I
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13-Jan-22	20-Jan-22	8.624	478.6	21.27
2	13-Jan-22	20-Jan-22	8.556	445.2	19.79
3	13-Jan-22	20-Jan-22	8.415	457.7	20.34

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of the work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

AE-1
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13-Jan-22	10-Feb-22	8.240	698.5	31.04
2	13-Jan-22	10-Feb-22	8.563	688.2	30.59
3	13-Jan-22	10-Feb-22	8.441	678.0	30.13

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of the work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

AE-1
A.E.E
AE

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15-Jan-22	22-Jan-22	8.415	457.8	20.35
2	15-Jan-22	22-Jan-22	8.625	445.2	19.79
3	15-Jan-22	22-Jan-22	8.441	478.6	21.27

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Job No.: CQCE/BBMP/AEE/YNK/W-01/2020-2021 Date: 12-Feb-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of the work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

A&E
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15-Jan-22	12-Feb-22	8.415	698.5	31.04
2	15-Jan-22	12-Feb-22	8.625	685.4	30.46
3	15-Jan-22	12-Feb-22	8.590	699.6	31.09

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Job No.: CQCE/BBMP/AEE/YNK/W-01/2020-2021 Date: 22-Jan-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of the work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15-Jan-22	22-Jan-22	8.415	474.5	21.09
2	15-Jan-22	22-Jan-22	8.690	465.8	20.70
3	15-Jan-22	22-Jan-22	8.112	477.5	21.22

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Job No.: CQCE/BBMP/AEE/YNK/W-01/2020-2021 Date: 12-Feb-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri.Y.B. Ramesh, Bangalore**

Name of the work : Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15-Jan-22	12-Feb-22	8.520	678.5	30.16
2	15-Jan-22	12-Feb-22	8.632	693.5	30.82
3	15-Jan-22	12-Feb-22	8.554	694.3	30.86

AEE

A.E.E

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

NABL
TC-9500

Job No.: CQCE/BBMP/AEE/YNK/W-01/2020-2021

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Name of Work	:	Construction of Drains and providing grills at BB Road in Kempegowda Ward No-01
Client	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Contractor	:	: Sri.Y.B. Ramesh, Bangalore
No.of Sample Tested	:	01
Date of Testing	:	28.12.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.376	2393.69	1.60	0.960	31.22	15.90	17.17	16.49	20.61
2	50.00	85.00	0.390	2336.77	1.70	0.960	32.54	16.57	17.90	17.18	21.48
3	50.00	81.00	0.373	2345.28	1.62	0.960	31.56	16.07	17.36	16.66	20.83

A.E.E

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30days from the date of testing.

AE

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